



#### Abstract of the Disclosure

A connector comprises a conductive terminal assembly including a plug-adaptable conductive terminal electrically connected with a circuit assembly and a pin holder for holding the conductive terminal, the conductive terminal assembly being sized to be able to be inserted from the front-end side of an outer shell case, and a cylindrical holding member which has openings at both ends to enable the conductive terminal assembly to be inserted, which also includes a joint part therein so as to position the conductive terminal assembly to itself, and which is fixed from the rear-end side of the outer shell case. In addition, the detection coil assembly and the conductive terminal assembly are electrically connected with each other via the flexible connection member.